DIN 50905-4:2018-03 (E)

Corrosion of metals - Corrosion testing - Part 4: Performance of chemical corrosion experiments without mechanical stresses in liquids in the laboratory

Contents

Page

Foreword ... 3

1 Scope ... 4

2 Normative references ... 4

3 Performance of corrosion tests in the laboratory at atmospheric pressure ... 4
3.1 General ... 4
3.2 Corrosion tests with constant corrosion stress (endurance immersion test, stability test, stirring test and boiling test) ... 4
3.3 Corrosion tests with alternating corrosion load (alternate immersion test) ... 6

4 Performance of corrosion tests in the laboratory at elevated pressure (pressure vessel test) ... 7

5 Test solution ... 8

Annex A (normative) **Test solutions** ... 9
A.1 Artificial seawater ... 9
A.2 Artificial brackish water ... 9
A.3 Sodium chloride solutions ... 10
A.3.1 Sodium chloride solution with a concentration of c (NaCl) = 30 g/l ... 10
A.3.2 Sodium chloride solution with a concentration of c (NaCl) = 50 g/l ... 10
A.3.3 Oxidizing sodium chloride solution ... 10

Bibliography ... 11